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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/707,177	11/25/2003	Charles J. Masenas	BUR920030144US1 1176 EXAMINER		
30449	7590 01/04/2005				
SCHMEISER, OLSEN + WATTS			NGUYEN, HAI L		
3 LEAR JET LANE SUITE 201			ART UNIT	PAPER NUMBER	
LATHAM, N	LATHAM, NY 12110				
			DATE MAILED: 01/04/2009	DATE MAILED: 01/04/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/707,177	MASENAS, CHARLES J.
Office Action Summary	Examiner	Art Unit
	Hai L. Nguyen	2816
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, is less than thirty (30) days, a reg. If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statuf. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tiled by within the statutory minimum of thirty (30) day I will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1)⊠ Responsive to communication(s) filed on 25 I	November 2003.	
	s action is non-final.	
3) Since this application is in condition for allows closed in accordance with the practice under	ance except for formal matters, pr	
Disposition of Claims		
4) ⊠ Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1.5.10.11.15 and 20 is/are rejected. 7) ⊠ Claim(s) 2-4.6-9.12-14.16-19 is/are objected. 8) □ Claim(s) are subject to restriction and/	awn from consideration. to.	
Application Papers		
9) ☐ The specification is objected to by the Examin 10) ☑ The drawing(s) filed on 25 November 2003 is/ Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the oath or declaration is objected to by the Examination is objected to by the Examination is objected.	are: a)⊠ accepted or b)⊡ objected or b)⊡ objected drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Applicatority documents have been received in PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) ⊠ Notice of References Cited (PTO-892)	4) Interview Summer	(PTO 413)
2) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail D	ate
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date) 5) Notice of Informal F 6) Other:	Patent Application (PTO-152)

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DETAILED ACTION

Claim Objections

1. Claims 7 and 14 are objected to because of the following informalities:

Claim 7, line 2, "s" should be changed to --is --; and

Claim 14, line 1, "11" should be changed to --11 --.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1, 5, 10, 11, 15, and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Zhang et al. (US 6,778,022).

With regard to claims 1 and 11, Zhang et al. discloses in Figs. 2A-6 a voltage controlled oscillator circuit, and a method of use thereof, comprising a drive circuit (20, 2200); an inductor/capacitor (LC) tank circuit, the LC tank circuit and the drive circuit collectively comprising a first oscillating node (270) and a second oscillating node (280), the first adapted to have a first voltage, oscillating node being the second oscillating node being adapted to have a second voltage; and a diode (262, 264) adapted to control an amplitude of the first voltage and an amplitude of the second voltage.

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With regard to claims 5 and 15, the reference also meets the recited limitations in these claim.

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With regard to claims 10 and 20, the voltage controlled oscillator circuit further comprises a comparator (660) adapted to compare the first voltage to the second voltage, wherein the voltage controlled oscillator circuit is within a phase-locked loop circuit (600), and wherein the comparator is further adapted to provide an output signal that tracks a phase and frequency of a reference signal for the phase-locked loop circuit.

Allowable Subject Matter

4. Claims 2-4, 6-9, 12-14, and 16-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art of record fails to disclose or fairly suggest a voltage controlled oscillator circuit (11A in instant Fig. 3), and a method of use thereof, as recited in claims 2 and 12, having specific structural limitations such as a diode (44) adapted to control an amplitude of the first voltage (27) and an amplitude of the second voltage (29), wherein the diode comprises a field effect transistor (FET) with a gate electrically shorted to a drain; and being configured in combination with the rest of the limitations of the base claims and any intervening claims.

The prior art of record fails to disclose or fairly suggest a voltage controlled oscillator circuit (11A in instant Fig. 3), and a method of use thereof, as recited in claims 4 and 14, having specific structural limitations such as a diode (44) adapted to maintain an amplitude of the first voltage (27) that is about constant over time and an amplitude of the second voltage (29) that is

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about constant over time; and being configured in combination with the rest of the limitations of the base claims and any intervening claims.

The prior art of record fails to disclose or fairly suggest a voltage controlled oscillator circuit (11A in instant Fig. 3), and a method of use thereof, as recited in claims 6 and 16, having specific structural limitations such as a diode (44) adapted to limit the amplitude of the first voltage (27) to within a range between a supply voltage (41) of the voltage controlled oscillator circuit and a ground voltage, and wherein the diode is adapted to limit the amplitude of the second voltage (29) to within a range between the supply voltage of the voltage controlled oscillator circuit and the ground voltage.

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. For example, Albon et al. (US Pat. 6,683,509) is cited as of interest because it discloses a voltage-controlled oscillators.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai L. Nguyen whose telephone number is 571-272-1747 and Right Fax number is 571-273-1747. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 571-272-1740. The official fax phone number for the organization where this application or proceeding is 703-872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-1562.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HLN HAV

TIMOTHY F. CALLAHAN
SUPERVISORY PATENT EXAMINER
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